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Snowpacks are near to above average over most of the state with southwest Montana reporting the best snowpack conditions. Only the Yaak and Kootenai River Basins in extreme northwest Montana report below average snowpacks for January 1. Cumulative precipitation since October 1 is near to above average across the state except in the Kootenai River Basin which is below average. Most irrigation reservoirs report near to a little below average levels. Most streams are currently forecast to have near average flows for the spring and summer period.

SNOWPACK

The January 1 snow measurements indicate near to a little above average snowpack conditions over most of the state. The season began with above to well above average snow accumulations over much of Montana during late October and early November. Due to mostly dry weather patterns occurring in late November and December, near to a little below average mountain snow accumulations were reported. As of January 1, snowpack conditions range from below average in extreme northwest Montana to above average in the southwestern areas. West of the Divide, snowpacks are below to a little below average on the Yaak and Kootenai River Drainages, near average on the Flathead River Basin and above average on the Blackfoot, Upper and Lower Clark Fork and Bitterroot River Basins. East of the Divide, snowpacks are above average on the Big Hole, Beaverhead, Ruby, Jefferson, Madison and Gallatin River Basins in southwest Montana and on the Sun and Teton River Basins in the north-central part of the state. Elsewhere, snowpacks are generally near to a little above average with the exception of the Bear Paw Mountains south of Havre where snowpacks are well below average. Near to a little above average snow conditions are also reported in the Lower Yellowstone River tributary basins in Wyoming.

PRECIPITATION

MOUNTAIN AREAS - Mountain precipitation during October was generally below to well below average over most of the state. However, southwest and south-central Montana received near to a little above average precipitation. November brought above to well above average mountain precipitation over most of Montana. The largest amounts fell across the southern half of the state while the Kootenai River Basin reported a little below average. December mountain precipitation was generally near average in western, northwestern and north-central Montana and below average elsewhere. For the water year which began October 1, mountain precipitation totals are above average on the Bitterroot, Jefferson and Madison River Drainages, a little below average on the Kootenai River Basin and near average elsewhere.

VALLEY AREAS - Most of the lower elevation reporting stations in Montana received normal to below normal precipitation during October, November and December. West of the Continental Divide, large amounts of precipitation were reported in November over portions of the Flathead and Bitterroot River Drainages. The Jefferson, Madison, Gallatin and Yellowstone Basins also received large amounts of precipitation particularly in October and November. In contrast to these areas, the northeast portion of the state received normal to below normal amounts of precipitation. During the past three months, Southeast Montana, especially Powder River and Carter Counties, has remained fairly dry with below normal amounts of precipitation. The Milk, Marias and Teton River Basins all received unusually low amounts of precipitation during December with many valley reporting stations recording only trace amounts of precipitation.

RESERVOIRS

Most irrigation reservoirs in the state report near to above average storage levels for January 1. The exceptions are Lima, Clark Canyon, Martinsdale, Smith River, Middle Creek and the combined storage of the eight Mission Valley Reservoirs. These reservoirs have storages in the 35 to 85 percent of average range. Storage levels in the larger multipurpose reservoirs range from about 80 to 105 percent of average.

STREAMFLOW

The water year began with most basins across the state reporting below to well below average streamflows. West of the Divide, streamflow conditions improved somewhat during November and December but generally remained below average. East of the Divide, streamflows were generally near to a little below average for November and December except in the southwest part of the state where below average flows continued. Streamflow forecasts for the spring and summer period are currently forecast to be near average across most of Montana. West of the Divide, streamflows are expected to be below average on the Yaak and Tobacco Rivers in the extreme northwest corner of Montana and near average elsewhere. East of the Divide, below average runoff is expected on the Smith and Prickly Pear Creek Drainages while above average flows are forecast on the Big Hole, Beaverhead and Jefferson Rivers. Most other basins are forecast to be near average.

SOIL MOISTURE

In general, mountain soil moisture conditions are near to below average across most of the state. Much of the precipitation received in October and November fell in the form of snow in the mountainous areas and did little to improve soil moisture contents. West of the Divide, soil moisture conditions are below to well below average. East of the Divide, near average conditions exist in north-central and south-central Montana and below average conditions elsewhere.

SURFACE WATER SUPPLY INDEX

The Surface Water Supply Index (SWSI) values will not be published this month. Beginning in February, SWSI's values will be issued on most major river basins in Montana.

KOOTENAI RIVER BASIN in Montana as of January 1, 1992

Mountain precipitation was well below average in October and a little below average in November and December. Cumulative precipitation since October 1 is about 80 percent of average. Basin snowpack conditions range from below average on the Yaak River in Montana and the East Kootenay River in Canada to near average on the Fisher and Tobacco River Drainages. Soils under the snowpack are drier that average. Storage in Lake Koocanusa is a little below average. Spring and summer streamflows are forecast to be below average on the Tobacco and Yaak River Basins and near to a little below average on the Fisher River and Kootenai Mainstem.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - January 1, 1992

Forecast Pt / Forecast Period	<=== Drier === Future Conditions === Wetter ===> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
TOBACCO nr Eureka							
APR-JUL	75	97	112	84	127	149	133
APR-SEP	85	107	123	84	139	162	147
KOOTENAI bl Libby Dam (1,2)							
APR-JUL	3580	4880	5470	95	6060	7360	5779
APR-SEP	4190	5720	6410	95	7100	8630	6772
FISHER nr Libby							
APR-JUL	127	176	210	90	245	295	234
APR-SEP	139	190	225	90	260	310	250
YAAK nr Troy							
APR-JUL	265	340	390	81	440	515	483
APR-SEP	285	360	410	81	460	535	505
KOOTENAI at Leonia (1,2)							
APR-JUL	4450	6080	6820	95	7560	9190	7199
APR-SEP	5120	6990	7840	95	8690	10600	8275

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

KOOTENAI RIVER BASIN in Montana
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	********* Average
LAKE KOOCANUSA	5748.0	2469.0	3396.0	2970.0

KOOTENAI RIVER BASIN in Montana
Watershed Snowpack Analysis - January 1, 1992

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
EAST KOOTENAI in B.C.	16	52	87
KOOTENAI MAINTSTEM in MT	12	57	90
TOBACCO	4	53	90
FISHER	1	59	100
YAAK	4	59	83
KOOTENAI in MT	14	56	88
KOOTENAI ab Bonners Ferry	30	54	88

FLATHEAD RIVER BASIN as of January 1, 1992

Mountain precipitation was below average in October, above average in November and near average in December. Cumulative precipitation since October 1 is near average. Snowpack conditions are near average over the basin except in the headwater areas of the Little Bitterroot, Jocko and South Fork Flathead River Basins where above average snowpacks exist. Since most of the precipitation at the higher elevations fell as snow, soils under the snowpack are drier than normal. Storage in Hungry Horse Reservoir and the combined storages of the eight Mission Valley Reservoirs are below average while the combined storage of the four Camas Reservoirs is well above average. Streamflows for the spring and summer period are forecast to be near to a little below average.

FLATHEAD RIVER BASIN
Streamflow Forecasts - January 1, 1992

Forecast Pt / Forecast Period	<--- Drier --- Future Conditions --- Wetter ---> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	50% (Most Prob) (% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
NF FLATHEAD nr Columbia Falls							
APR-JUL	1110	1320	1460	88	1600	1810	1662
APR-SEP	1250	1460	1610	88	1760	1970	1836
MF FLATHEAD nr West Glacier							
APR-JUL	1220	1450	1610	98	1770	2000	1638
APR-SEP	1340	1590	1760	98	1930	2180	1788
SF FLATHEAD nr Columbia Fls (1,2)							
APR-JUL	1330	1760	1950	95	2140	2570	2051
APR-SEP	1440	1880	2080	95	2280	2720	2184
FLATHEAD at Columbia Falls (2)							
APR-JUL	3960	4610	5060	92	5510	6160	5482
APR-SEP	4380	5050	5500	92	5950	6620	5960
STILLWATER nr Whitefish							
APR-JUL	111	146	170	90	194	230	189
APR-SEP	127	164	189	90	215	250	209
WHITEFISH nr Kalispell							
APR-JUL	70	85	95	91	105	120	104
APR-SEP	80	96	107	92	118	134	116
SWAN nr Bigfork							
APR-JUL	445	515	560	96	610	675	583
APR-SEP	505	585	640	96	695	775	665
FLATHEAD nr Polson (1,2)							
APR-JUL	4160	5280	5790	91	6300	7420	6390
APR-SEP	4620	5760	6280	91	6800	7940	6926

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

FLATHEAD RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
CAMAS (4)	45.2	28.2	25.9	18.6
MISSION VALLEY (8)	100.0	26.3	22.4	33.8
HUNGRY HORSE	3451.0	2110.0	2840.0	2586.0
FLATHEAD LAKE	1791.0	1022.0	1255.0	1305.0

FLATHEAD RIVER BASIN
Watershed Snowpack Analysis - January 1, 1992

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
NORTH FORK FLATHEAD	7	56	91
MIDDLE FORK FLATHEAD	7	61	99
SOUTH FORK FLATHEAD	8	68	104
STILLWATER-WHITEFISH	2	61	102
SWAN	10	71	107
MISSION VALLEY	5	73	108
LITTLE BITTERROOT-ASHLEY	1	59	100
JOCKO	7	88	128
FLATHEAD	31	69	105

UPPER CLARK FORK RIVER BASIN as of January 1, 1992

Mountain precipitation was well below average in October, well above average for November and near average in December. Since October 1, cumulative precipitation is near average. Basin snowpacks are above average in the 115 to 125 percent of average range. Soil moisture conditions are generally drier than normal. Spring and summer streamflows are expected to be near to a little below average.

UPPER CLARK FORK RIVER BASIN
Streamflow Forecasts - January 1, 1992

Forecast Pt / Forecast Period	<=== Drier === Future Conditions === Wetter ===> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
MOULTON RES inflow (million gal.)							
APR-JUN	88	149	190	90	230	295	212
APR-JUL	93	163	210	90	260	325	234
WARM SPRINGS CK at Anaconda (2)							
APR-JUL	21	30	35	92	41	49	38
APR-SEP	28	37	43	91	49	58	47
LITTLE BLACKFOOT nr Garrison							
APR-JUL	10.0	49	75	90	101	140	83
APR-SEP	13.0	54	82	92	110	151	89
FLINT CK nr Southern Cross (2)							
APR-JUL	6.2	10.1	12.8	90	15.5	19.4	14.2
APR-SEP	7.0	11.7	15.0	90	18.3	23	16.7
FLINT CK bl Boulder Ck							
APR-JUL	30	43	52	91	61	74	57
APR-SEP	39	55	66	90	77	93	73
LOWER WILLOW CK RES inflow							
APR-JUL	4.5	9.3	12.6	90	15.9	21	14.0
APR-SEP	5.1	10.0	13.4	91	16.8	22	14.8
MF ROCK CK nr Philipsburg							
APR-JUL	40	52	60	91	68	80	66
APR-SEP	45	58	67	91	76	89	74
ROCK CK nr Clinton							
APR-JUL	156	225	275	93	325	395	296
APR-SEP	180	260	310	93	365	440	333
NEVADA CK nr Finn							
APR-JUL	6.2	13.0	17.6	92	22	29	19.1
APR-SEP	7.1	14.2	19.1	91	24	31	21
CLEARWATER nr Clearwater							
APR-JUL	108	136	155	90	174	200	172
APR-SEP	113	142	162	90	182	210	181
BLACKFOOT nr Bonner							
APR-JUL	505	665	770	92	875	1040	835
APR-SEP	570	740	855	92	970	1140	926

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CLARK FORK ab Milltown							
APR-JUL	285	475	605	93	735	925	652
APR-SEP	350	560	700	93	840	1050	755
CLARK FORK ab Missoula							
APR-JUL	850	1170	1380	93	1590	1910	1487
APR-SEP	985	1330	1560	93	1790	2140	1681

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

UPPER CLARK FORK RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
GEORGETOWN LAKE	31.0	29.2	28.7	27.9
LOWER WILLOW CREEK		NO REPORT		
NEVADA CREEK		NO REPORT		

UPPER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - January 1, 1992

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
CLARK FORK ab FLINT CREEK	16	146	118
FLINT CREEK	7	129	115
ROCK CREEK	1	104	126
CLARK FORK ab BLACKFOOT	24	132	117
BLACKFOOT	16	86	120
UPPER CLARK FORK	37	104	119

BITTERROOT RIVER BASIN as of January 1, 1992

Mountain precipitation varied from well below average in October to well above average in November. December precipitation amounts were near average. Total precipitation accumulations since October 1 are about 115 percent of average. Basin snowpacks range from about 115 to 130 percent of average. Most of the fall moisture fell in the form of snow leaving soils under the snowpack drier than normal. Spring and summer streamflows are forecast to be near average.

BITTERROOT RIVER BASIN
Streamflow Forecasts - January 1, 1992

Forecast Pt / Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions 50% (Most Prob) (1000AF)	(% AVG.)	=== Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
WF BITTERROOT nr Conner (2)							
APR-JUL	81	120	146	96	173	210	152
APR-SEP	87	129	157	95	185	225	166
BITTERROOT nr Darby							
APR-JUL	315	425	500	102	575	685	491
APR-SEP	360	475	550	102	625	740	540
ROCK CK nr Darby (2)							
APR-JUL	58	71	80	101	89	102	79
APR-SEP	62	75	84	101	93	106	83
SKALKAHO CK nr Hamilton							
APR-JUL	30	38	44	96	50	58	46
APR-SEP	35	45	51	96	57	67	53
BURNT FORK CK nr Stevensville (2)							
APR-JUL	17.0	23	28	97	33	39	29
APR-SEP	21	28	33	97	38	46	34
BITTERROOT at Missoula							
APR-JUL	865	1120	1300	100	1480	1740	1301
APR-SEP	990	1250	1420	100	1590	1850	1418

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

BITTERROOT RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
PAINTED ROCKS LAKE	31.7	0.6	2.4	13.9
COMO	34.9	6.2	10.9	9.0

BITTERROOT RIVER BASIN
Watershed Snowpack Analysis - January 1, 1992

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
WEST FORK BITTERROOT	4	114	126
EAST SIDE BITTERROOT	2	114	126
WEST SIDE BITTERROOT	6	88	116
BITTERROOT	12	97	120

LOWER CLARK FORK RIVER BASIN as of January 1, 1992

Mountain precipitation was well below average in October, above average in November and near average for December. Cumulative precipitation since October 1 is near average. Snowpack conditions in the larger upstream tributaries range from about 115 to 130 percent of average while the smaller tributaries of the Clark Fork River below Missoula report about 115 percent of average snowpack. Storage in Noxon Reservoir is near average. Streamflows for the spring and summer period are forecast to be near average.

LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - January 1, 1992

Forecast Pt / Forecast Period	<--- Drier --- Future Conditions --- Wetter ---> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	50% (Most Prob) (% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
CLARK FORK ab Missoula							
APR-JUL	850	1170	1380	93	1590	1910	1487
APR-SEP	985	1330	1560	93	1790	2140	1681
CLARK FORK bl Missoula							
APR-JUL	1740	2300	2680	96	3060	3620	2788
APR-SEP	2010	2590	2980	96	3370	3950	3099
CLARK FORK at St. Regis (1)							
APR-JUL	1660	2910	3490	95	4070	5340	3686
APR-SEP	1830	3240	3880	95	4520	5930	4095
CLARK FORK nr Plains (1,2)							
APR-JUL	5120	8100	9470	91	10800	13900	10450
APR-SEP	5590	8900	10400	91	11900	15200	11470
THOMPSON nr Thompson Falls							
APR-JUL	138	175	200	93	225	260	214
APR-SEP	156	197	225	94	255	295	240
PROSPECT CK at Thompson Falls							
APR-JUL	77	100	115	93	130	153	123
APR-SEP	84	109	125	95	142	166	132
CLARK FK at Whitehorse Rpds (1,2)							
APR-JUL	5470	8860	10400	89	11900	15300	11730
APR-SEP	5970	9710	11400	88	13100	16800	12910

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

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(2) - The value is natural flow - actual flow may be affected by upstream water management.

LOWER CLARK FORK RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
NOXON RAPIDS	335.0	322.3	328.7	317.1

LOWER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - January 1, 1992

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
UPPER CLARK FORK	37	104	119
BITTERROOT	12	97	120
LOWER CLARK FORK	14	88	113
CLARK FORK TOTAL	58	95	116
FLATHEAD	25	64	101
PEND OREILLE	81	82	109

JEFFERSON RIVER BASIN as of January 1, 1992

Mountain precipitation was above to well above average for October and November and below average for December. Cumulative precipitation since October 1 is about 120 percent of average. Basin snowpacks are above average with most basins reporting about 120 percent of average. Soils under the snowpack are drier than normal. Clark Canyon and Lima Reservoirs report below and well below average storage respectively while storage in Ruby Reservoir is near average. Streamflows for the spring and summer months are forecast to be near to above average in the 105 to 120 percent of average range.

JEFFERSON RIVER BASIN
Streamflow Forecasts - January 1, 1992

Forecast Pt / Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions — Chance of Exceeding * — 50% (Most Prob) (1000AF)	50% (Most Prob) (% AVG.)	=== Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
RED ROCK RIVER near Monida (2)							
APR-JUL	59	85	102	105	119	145	97
APR-SEP	63	91	111	106	131	160	105
BEAVERHEAD RIVER near Grant (2)							
APR-JUL	56	110	147	111	184	240	132
APR-SEP	72	136	179	115	225	285	155
BEAVERHEAD RIVER at Barratts (2)							
APR-JUL	85	148	190	110	235	295	172
APR-SEP	113	186	235	116	285	355	203
RUBY RIVER near Alder							
APR-JUL	62	78	89	107	100	117	83
APR-SEP	73	93	106	107	119	139	99
BIG HOLE RIVER near Melrose							
APR-JUL	505	660	770	120	880	1040	641
APR-SEP	575	745	860	123	975	1150	697
BOULDER RIVER near Boulder							
APR-JUL	44	73	93	109	113	142	85
APR-SEP	47	79	100	110	122	153	91
WILLOW CREEK near Harrison							
APR-JUL	5.3	11.7	16.0	90	20	27	17.7
APR-SEP	5.9	13.1	18.0	90	23	30	20
JEFFERSON near Three Forks (2)							
APR-JUL	695	940	1110	~~121~~ 119	1280	1530	~~920~~ 935
APR-SEP	840	1100	1270	~~127~~ 124	1440	1700	~~1003~~ 1027

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

JEFFERSON RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
LIMA	84.0	10.9	12.1	32.5
CLARK CANYON	255.6	99.9	78.0	138.8
RUBY RIVER	38.8	20.3	16.0	20.2

JEFFERSON RIVER BASIN
Watershed Snowpack Analysis - January 1, 1992

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
BEAVERHEAD	17	170	119
RUBY	5	146	120
BIGHOLE	13	146	121
BOULDER	10	177	124
JEFFERSON	37	157	120

MADISON RIVER BASIN as of January 1, 1992

Mountain precipitation was above to well above average for October and November while December had below average precipitation. Cumulative precipitation since October 1 is about 115 percent of average. Snowpack conditions are currently about 120 percent of average over the basin. Soils under the snowpack are generally drier than normal since most of the fall precipitation fell as snow and added little moisture to the soil profiles. Reservoir storage is near average. Spring and summer streamflows are forecast to be a little above average at about 110 percent of average.

MADISON RIVER BASIN
Streamflow Forecasts - January 1, 1992

Forecast Pt / Forecast Period	<=== Drier === Future Conditions === Wetter ===> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	50% (Most Prob) (% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
MADISON RIVER near Grayling (2)							
APR-JUL	345	390	420	111	450	495	380
APR-SEP	450	505	540	111	575	630	486
MADISON RIVER near McAllister (2)							
APR-JUL	580	655	710	107	765	840	662
APR-SEP	745	835	895	108	955	1050	831

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

MADISON RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
ENNIS LAKE	41.0	30.6	29.9	33.7
HEBGEN LAKE	377.5	247.7	256.4	245.6

MADISON RIVER BASIN
Watershed Snowpack Analysis - January 1, 1992

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
MADISON above HEBGEN	10	137	119
LOWER MADISON	8	131	118
MADISON	18	134	119

GALLATIN RIVER BASIN as of January 1, 1992

Mountain precipitation was a little below average in October, above average in November and below average in December. Cumulative precipitation since October 1 is near average. Snowpack conditions are a little above average throughout the basin for January 1. Storage in Middle Creek Reservoir is about 85 percent of average. Since much of the fall precipitation fell in the form of snow, soil profiles under the snowpack are drier than normal. Spring and summer streamflows are expected to be near average.

GALLATIN RIVER BASIN
Streamflow Forecasts - January 1, 1992

Forecast Pt / Forecast Period	<=== Drier === Future Conditions === Wetter ===> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
GALLATIN RIVER near Gateway							
APR-JUL	355	410	445	101	480	535	441
APR-SEP	425	485	525	101	565	625	518
E & W FK HYALITE CK nr Bozeman							
APR-JUL	16.0	20	22	96	25	28	23
APR-SEP	18.0	21	24	92	27	30	26
HYALITE CREEK near Bozeman (2)							
APR-JUL	24	30	34	94	38	44	36
APR-SEP	28	35	39	93	43	50	42
GALLATIN RIVER at Logan							
APR-JUL	320	420	490	99	560	660	497
APR-SEP	395	500	570	98	640	745	581

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

GALLATIN RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
MIDDLE CREEK	8.0	2.9	4.7	3.4

GALLATIN RIVER BASIN
Watershed Snowpack Analysis - January 1, 1992

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
UPPER GALLATIN	7	124	113
EAST GALLATIN	6	137	108
GALLATIN	12	131	113

MAINSTEM MISSOURI RIVER BASIN as of January 1, 1992

Mountain precipitation was a little below average in October, above average in November and near average in December. Cumulative precipitation since October 1 is near average. Snowpack conditions on the Missouri Headwater streams is about 120 percent of average. Snowpacks on the tributary streams below Toston range from near to a little above average. Soils under the snowpacks are generally drier than normal except on the north-side tributaries where moisture levels are near average. Storage in Canyon Ferry Reservoir is near average while Fort Peck Reservoir reports below average storage. Spring and summer streamflows are forecast to be near to above average on the Missouri Headwater streams and near to a little below average on the downstream tributaries. Streamflows on the Missouri Mainstem are forecast to be near to slightly above average.

MAINSTEM MISSOURI RIVER BASIN
Streamflow Forecasts - January 1, 1992

Forecast Pt / Forecast Period	<=== Drier === Future Conditions === Wetter ===> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
MISSOURI RIVER at Toston (2)							
APR-JUL	1520	1960	2260	109	2560	3000	2075
APR-SEP	1890	2370	2690	111	3010	3490	2416
PRICKLY PEAR CREEK nr Clancy							
APR-JUL	1.6	12.0	19.0	83	26	36	23
APR-SEP	3.0	15.0	23	85	31	43	27
SUN RIVER at Gibson Dam (2)							
APR-JUL	295	410	490	103	570	685	478
APR-SEP	335	455	540	103	625	745	526
MISSOURI RIVER at Fort Benton (2)							
APR-JUL	1720	2640	3270	106	3900	4820	3087
APR-SEP	2250	3250	3940	107	4630	5630	3678
MARIAS RIVER near Shelby (2)							
APR-JUL	134	320	450	101	580	765	447
APR-SEP	156	350	480	99	610	805	487
MISSOURI RIVER at Virgelle (2)							
APR-JUL	1700	2850	3620	101	4400	5540	3595
APR-SEP	2230	3470	4310	102	5150	6390	4217
MISSOURI RIVER near Landusky (2)							
APR-JUL	1760	3050	3930	101	4810	6100	3897
APR-SEP	2340	3730	4680	102	5630	7020	4580
MISSOURI RIVER blw Fort Peck (2)							
APR-JUL	1670	3110	4080	102	5050	6490	4015
APR-SEP	2160	3710	4760	104	5810	7360	4596
LAKE SAKAKAWEA Inflow (2)							
APR-JUL	5600	8400	10300	102	12200	15000	10120
APR-SEP	6850	10100	12300	106	14500	17700	11570

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

MAINSTEM MISSOURI RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
CANYON FERRY LAKE	2043.0	1575.0	1719.0	1690.0
HELENA VALLEY	9.2	4.9	4.6	4.9
LAKE HELENA	10.4	10.9	10.9	10.4
HAUSER & HELENA	61.9	63.1	63.1	61.0
HOLTER LAKE	81.9	81.6	40.9	76.7
FORT PECK LAKE (MAF)	18.9	11.9	10.6	15.1

MAINSTEM MISSOURI RIVER BASIN
Watershed Snowpack Analysis - January 1, 1992

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
MISSOURI HEADWATERS	59	145	118
WEST SIDE MISSOURI	8	143	119
SMITH-BELT	5	99	103
MAINSTEM MISSOURI	13	118	111
SUN-TETON-MARIAS	7	60	108
JUDITH-MUSSELSHELL	8	115	100
MISSOURI above FORT PECK	78	122	116
MILK RIVER	10	61	85
MISSOURI in MONTANA	86	120	113
MISSOURI blw YELLOWSTONE	135	117	110

SMITH-JUDITH-MUSSELSHELL RIVER BASINS as of January 1, 1992

Precipitation in the mountain areas of the basin was a little below average in October, above to well above average in November and below average in December. Since October 1, cumulative precipitation has been near average. Basin snowpacks are near average except in the Snowy Mountains near Lewistown where above average snowpack is reported. Soils under the snowpack have near to a little below average moisture content. Reservoir storage levels range from below average in Smith River and Martinsdale Reservoirs to above average elsewhere. Spring and summer streamflows are forecast to be a little below average on the Smith River and Sheep Creek and near average on the Musselshell River.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - January 1, 1992

Forecast Pt / Forecast Period	<=== Drier === Future Conditions === Wetter ===> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
SMITH RIVER nr Ft. Logan							
APR-JUL	14.0	36	51	82	66	88	62
APR-SEP	22	46	62	85	78	102	73
SHEEP CK nr White Sulphur Springs							
APR-JUL	10.1	13.4	15.6	86	17.8	21	18.1
APR-SEP	12.3	15.9	18.3	87	21	24	21
NF MUSSELSHELL near Delpine							
APR-JUL	2.1	3.8	4.9	102	6.0	7.7	4.8
APR-SEP	2.6	4.5	5.8	104	7.1	9.0	5.6
SF MUSSELSHELL abv Martinsdale							
APR-JUL	17.0	40	55	106	70	93	52
APR-SEP	21	44	60	107	76	99	56

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
SMITH RIVER	10.6	3.8	4.5	5.9
NEWLAN CREEK	12.4	10.4	9.5	8.9
BAIR	7.0	4.7	2.8	3.7
MARTINSDALE	23.1	7.5	8.0	9.2
DEADMAN'S BASIN	72.2	54.6	30.0	40.3

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Watershed Snowpack Analysis - January 1, 1992

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SMITH-BELT	5	99	103
JUDITH-MUSSELSHELL	8	115	100

SUN-TETON-MARIAS RIVER BASINS as of January 1, 1992

Mountain precipitation was below average in October and near to a little above average in November and December. Cumulative precipitation since October 1 is near average. Soil moisture conditions under the snowpack are near average. Reservoir storage levels are near to above average. Streamflows for the spring and summer period are forecast to be near average.

SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - January 1, 1992

Forecast Pt / Forecast Period	<=== Drier === Future Conditions === Wetter ===> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	50% (Most Prob) (% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
SUN RIVER at Gibson Dam (2)							
APR-JUL	295	410	490	103	570	685	478
APR-SEP	335	455	540	103	625	745	526
TWO MEDICINE CREEK nr Browning (2)							
APR-JUL	111	173	215	100	255	320	215
APR-SEP	125	188	230	101	270	335	228
BADGER CREEK near Browning (2)							
APR-JUL	55	84	103	99	122	151	104
APR-SEP	68	98	119	99	140	170	120
SWIFT RESERVOIR Inflow nr Dupuyer							
APR-JUL	32	52	66	97	80	100	68
APR-SEP	43	64	79	99	94	115	80
DUPUYER CREEK near Valier							
APR-JUL	4.6	6.5	15.0	97	24	36	15.5
APR-SEP	5.2	8.8	16.9	97	25	37	17.4
CUT BANK CREEK at Cut Bank							
APR-JUL	42	69	87	100	105	132	87
APR-SEP	49	77	96	100	115	143	96
MARIAS RIVER near Shelby (2)							
APR-JUL	134	320	450	101	580	765	447
APR-SEP	156	350	480	99	610	805	487

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

SUN-TETON-MARIAS RIVER BASINS
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
GIBSON	99.1	40.2	48.6	41.0
PISHKUN	32.0	19.6	19.8	17.9
WILLOW CREEK	32.2	29.3	27.8	20.8
LOWER TWO MEDICINE LAKE	11.9	11.2	----	6.5
FOUR HORNS LAKE	19.2	13.7	----	12.4
SWIFT	30.0	13.3	16.1	11.8
LAKE FRANCES	112.0	85.1	68.8	69.7
LAKE ELWELL (TIBER)	1347.0	700.1	743.3	591.0

SUN-TETON-MARIAS RIVER BASINS
Watershed Snowpack Analysis - January 1, 1992

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SUN-TETON	3	68	113
MARIAS	4	56	106
SUN-TETON-MARIAS	7	60	108

ST. MARY and MILK RIVER BASINS as of January 1, 1992

Mountain precipitation was below average during October and December and above average in November. Total cumulative precipitation since October 1 is near average. Snowpack conditions are near average in the headwater areas of the Milk and St. Mary Rivers. Reservoir storage levels are near to above average. Streamflows for the spring and summer period are forecast to be near to a little below average.

ST. MARY and MILK RIVER BASINS
Streamflow Forecasts - January 1, 1992

Forecast Pt / Forecast Period	<=== Drier === Future Conditions === Wetter ===> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
SWIFTCURRENT CK at Sherburne (2)							
APR-JUL	76	90	99	90	108	122	110
APR-SEP	91	105	115	90	125	139	128
ST. MARY RIVER near Babb (2)							
APR-JUL	265	325	365	90	405	465	404
APR-SEP	315	380	425	90	470	535	474
MILK RIVER at Eastern Crossing (2)							
MAR-SEP			235	91			258
MILK RIVER at Eastern Crossing							
MAR-SEP			235	91			258

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

ST. MARY and MILK RIVER BASINS
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
LAKE SHERBURNE	64.3	23.6	38.4	21.1
FRESNO	127.0	64.8	53.9	53.1
BEAVER CREEK	3.5	2.8	2.6	1.8
NELSON	66.8	41.4	38.8	38.0

ST. MARY and MILK RIVER BASINS
Watershed Snowpack Analysis - January 1, 1992

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
MILK HEADWATERS	3	54	104
BEAR PAW	7	101	52
MILK RIVER	10	61	85
ST. MARY	4	55	97
ST. MARY and MILK	11	59	86
BOW RIVER in ALBERTA	5	36	84
OLDMAN RIVER in ALBERTA	0	0	0

UPPER YELLOWSTONE RIVER BASIN as of January 1, 1992

Mountain precipitation was above average in October and November and below average for December. Cumulative precipitation totals since October 1 are a little above average. Basin snowpack conditions range from near to a little above average. Soil moisture conditions under the snowpack are generally near average. Storage in Cooney Reservoir is a little above average. Spring and summer streamflows are generally forecast to be near average except on the Boulder River near Big Timber where a little above average runoff is expected.

UPPER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - January 1, 1992

Forecast Pt / Forecast Period	<=== Drier === Future Conditions === Wetter ===> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
YELLOWSTONE at Lake Outlet							
APR-JUL	395	490	555	97	620	715	573
APR-SEP	555	680	770	97	860	985	792
YELLOWSTONE at Corwin Springs							
APR-JUL	1310	1530	1680	104	1830	2050	1609
APR-SEP	1590	1850	2020	104	2190	2450	1937
YELLOWSTONE RIVER near Livingston							
APR-JUL	1500	1760	1940	105	2120	2380	1855
APR-SEP	1850	2150	2350	105	2550	2850	2241
SHIELDS RIVER near Livingston							
APR-JUL	59	117	156	96	195	255	162
APR-SEP	74	133	174	97	215	275	179
BOULDER RIVER at Big Timber							
APR-JUL	265	330	370	110	410	475	335
APR-SEP	300	365	410	113	455	520	364
W. ROSEBUD CREEK near Roscoe (2)							
APR-JUL	49	58	64	105	70	79	61
APR-SEP	67	76	83	105	90	100	79
STILLWATER RIVER nr Absarokee (2)							
APR-JUL	360	460	525	105	590	690	498
APR-SEP	455	560	630	106	700	805	593
CLARKS FORK RIVER near Belfry							
APR-JUL	395	490	550	103	610	705	532
APR-SEP	445	545	610	103	675	775	590
YELLOWSTONE RIVER at Billings							
APR-JUL	2740	3380	3820	107	4260	4900	3577
APR-SEP	3370	4070	4540	108	5010	5710	4211

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

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(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

UPPER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
MYSTIC LAKE	21.0	7.4	6.8	11.6
COONEY	27.4	16.0	17.7	14.0

UPPER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - January 1, 1992

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
YELLOWSTONE ab LIVINGSTON	16	115	104
SHIELDS	6	144	117
BOULDER-STILLWATER	3	126	110
CLARK'S FORK-ROCK CREEK	10	121	113
YELLOWSTONE above BIGHORN	30	120	108

LOWER YELLOWSTONE RIVER BASIN as of January 1, 1992

Mountain precipitation was near to well above average for October and November respectively and below average in December. Total cumulative precipitation since October 1 has been a little above average. Basin snowpack conditions range from near average on the Bighorn and Little Bighorn River Drainages to a little above average on the Tongue and Powder River Basins. Soil moisture conditions are near normal. Storage in Bighorn Lake is near average for this time of year. Streamflows for the spring and summer period are forecast to be near to a little above average.

LOWER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - January 1, 1992

Forecast Pt / Forecast Period	<--- Drier --- Future Conditions --- Wetter ---> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
YELLOWSTONE RIVER at Billings							
APR-JUL	2740	3380	3820	107	4260	4900	3577
APR-SEP	3370	4070	4540	108	5010	5710	4211
BIG HORN RIVER nr St. Xavier (2)							
APR-JUL	785	1260	1590	97	1920	2390	1645
APR-SEP	895	1400	1740	96	2080	2590	1810
LITTLE BIGHHORN RIVER nr Hardin							
APR-JUL	40	106	150	107	194	260	140
APR-SEP	52	124	172	110	220	290	157
TONGUE RIVER near Decker (2)							
APR-JUL	105	188	245	108	300	385	227
APR-SEP	123	210	270	108	330	415	250
YELLOWSTONE at Miles City (2)							
APR-JUL	3390	4660	5530	102	6400	7670	5431
APR-SEP	4480	5910	6880	109	7850	9280	6309
POWDER RIVER at Moorhead							
APR-JUL	34	133	200	95	265	365	211
POWDER RIVER near Locate							
APR-JUL	43	160	240	95	320	435	252
YELLOWSTONE RIVER nr Sidney (2)							
APR-JUL	3700	5100	6060	106	7020	8420	5695
APR-SEP	4950	6430	7430	114	8430	9910	6530

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

LOWER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
BIGHORN LAKE	1356.0	915.6	881.0	866.0
TONGUE RIVER	68.0	16.1	17.3	25.9

LOWER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - January 1, 1992

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
BIG HORN (Wyoming)	29	99	99
LITTLE BIGHORN	2	168	102
TONGUE RIVER (Wyoming)	5	130	109
POWDER RIVER (Wyoming)	7	119	113
YELLOWSTONE RIVER	59	114	106